3VA5270-6ED36-1AA0

Data sheet



circuit breaker 3VA5 UL frame 250 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM210, FTFM, In=70A overload protection Ir=70A fixed short-circuit protection Ii=10 x In UL489 SB (naval), 50 both sides

product brand name product designation product designation / according to UL file design of the product design of the product design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HD Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (FIO Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (FIO Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (FIO Type) design of the overcurrent release	Model	
product designation / according to UL file	product brand name	SENTRON
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (BVD Type) design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (SWD Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the overcurrent release TM210 protection function of the overcurrent release LI number of poles 3 Ceneral technical data operating voltage / at AC / rated value operating voltage / at AC / rated value opower loss [W] / maximum 17 W opower loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / tg/pcal electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 690 V product feature / for neutral conductors / upgradable/retrofittable / short-oricuit and overload proof ground-fault monitoring version versions without versions and the product function • communication function • communication function • communication function volument at 40 °C val 45 °C val 45 °C val 65 °C val 64 4 A	product designation	Molded-case circuit breaker
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circul breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity-Discharge circuit breaker (HID Type) design of the load switch / according to UL 489 / High-Intensity-Discharge circuit breaker (FID Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the overcurrent release TM210 protection function of the overcurrent release LI number of poles 3 Ceneral technical data operating voltage / at AC / rated value power loss [W] / maximum 17 W power loss [W] / for rated value of the current / at AC / in hot operating state! / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380415 V electrical endurance (operating cycles) / at 480 V el	product designation / according to UL file	HFAM
Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity- bischarage circuit breaker (HHD Type) design of the load switch / according to UL 489 / High-Intensity- circuit breaker (SWD Type) design of the overcurrent release protection function of the overcurrent release LI number of poles Ceneral technical data operating voltage / at AC / rated value opwer loss [W] / maximum 17 W opwer loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at 600 V ele	design of the product	System protection
Discharge circuit breaker (HID Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the overcurrent release TM210 protection function of the overcurrent release I MI210 protection function of the overcurrent release I I I I I I I I I I I I I I I I I I I		Yes
design of the overcurrent release protection function of the overcurrent release LI number of poles 3 General technical data operating voltage / at AC / rated value 690 V power loss [W] / maximum 17 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / typical 20 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at 480 V 4 000 product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function No other measurement function No other measurement function No other measurement function No operational current 2.308 kg Curront marking / according to UL 489 / 100%-rated breaker No operational current 2 at 40 °C 70 A 2 at 55 °C 70 A 3 at 55 °C 70 A 3 at 55 °C 70 A 3 at 65 °C 70 A 3 at 65 °C 66.5 A 64.4 A		No
Description of the overcurrent release Li		No
number of poles 3	design of the overcurrent release	TM210
Operating voltage / at AC / rated value 690 V	protection function of the overcurrent release	LI
operating voltage / at AC / rated value 690 V power loss [W] / maximum 17 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 70 per	number of poles	3
Dower loss [W] / maximum	General technical data	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 4 000 product leature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function No other measurement function No Net Weight 2.308 kg Current marking / according to UL 489 / 100%-rated breaker No operational current at 40 °C 70 A at 50 °C 70 A at 50 °C 67.9 A at 60 °C 66.5 A at 65 °C 64.4 A	operating voltage / at AC / rated value	690 V
operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 690 V 4 000 product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function No	power loss [W] / maximum	17 W
electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function • communication function • other measurement function No Net Weight Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 45 °C • at 55 °C • at 60 °C • at 60 °C • at 65 °C • at 65 °C • at 65 °C 64.4 A		5.7 W
electrical endurance (operating cycles) / at AC-1 / at 690 V	mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at 480 V electrical endurance (operating cycles) / at 600 V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version product function o communication function No No Net Weight Current marking / according to UL 489 / 100%-rated breaker o at 40 °C o at 45 °C o at 55 °C o at 65 °C o at 65 °C o at 65 °C o at 65 °C o 44.4 A	electrical endurance (operating cycles) / at AC-1 / at 380/415 V	8 000
electrical endurance (operating cycles) / at 600 V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function communication function other measurement function No Net Weight Current marking / according to UL 489 / 100%-rated breaker operational current at 40 °C at 45 °C at 45 °C at 55 °C at 60 °C at 60 °C at 65 °C 66.5 A cat 65 °C 64.4 A	electrical endurance (operating cycles) / at AC-1 / at 690 V	4 000
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function • communication function No • other measurement function No Net Weight 2.308 kg Current marking / according to UL 489 / 100%-rated breaker No operational current • at 40 °C 70 A • at 45 °C 70 A • at 50 °C 70 A • at 55 °C 67.9 A • at 60 °C 66.5 A • at 65 °C 64.4 A	electrical endurance (operating cycles) / at 480 V	8 000
// short-circuit and overload proof ground-fault monitoring version without product function	electrical endurance (operating cycles) / at 600 V	4 000
product function		No
 ● communication function No Noter measurement function No Net Weight 2.308 kg Current marking / according to UL 489 / 100%-rated breaker No operational current at 40 °C at 45 °C 70 A at 50 °C at 55 °C at 60 °C at 60 °C at 65 °C 64.4 A 	ground-fault monitoring version	without
● other measurement function No Net Weight 2.308 kg Current marking / according to UL 489 / 100%-rated breaker operational current ● at 40 °C ● at 45 °C ● at 50 °C ● at 55 °C ● at 60 °C ● at 65 °C ● 66.5 A ● 41 65 °C No 2.308 kg No No 0 0 0 0 0 0 0 0 0 0 0 0 0	product function	
Net Weight 2.308 kg Current marking / according to UL 489 / 100%-rated breaker No operational current 70 A • at 40 °C 70 A • at 50 °C 70 A • at 55 °C 67.9 A • at 60 °C 66.5 A • at 65 °C 64.4 A	 communication function 	No
Current marking / according to UL 489 / 100%-rated breaker No operational current 70 A • at 40 °C 70 A • at 50 °C 70 A • at 55 °C 67.9 A • at 60 °C 66.5 A • at 65 °C 64.4 A	 other measurement function 	No
marking / according to UL 489 / 100%-rated breaker No operational current 70 A • at 40 °C 70 A • at 50 °C 70 A • at 55 °C 67.9 A • at 60 °C 66.5 A • at 65 °C 64.4 A	Net Weight	2.308 kg
operational current • at 40 °C • at 45 °C • at 50 °C • at 55 °C • at 60 °C • at 65 °C • 64.4 A	Current	
 at 40 °C at 45 °C at 50 °C at 55 °C at 60 °C at 60 °C at 65 °C 64.4 A 	marking / according to UL 489 / 100%-rated breaker	No
 at 45 °C at 50 °C at 55 °C at 60 °C at 65 °C 64.4 A 	operational current	
 at 50 °C at 55 °C at 60 °C at 60 °C at 65 °C 64.4 A 	• at 40 °C	70 A
 at 55 °C at 60 °C at 65 °C 64.4 A 	• at 45 °C	70 A
• at 60 °C • at 65 °C • 64.4 A	• at 50 °C	70 A
• at 65 °C 64.4 A	• at 55 °C	67.9 A
	• at 60 °C	66.5 A
• at 70 °C 61.6 A	● at 65 °C	64.4 A
	• at 70 °C	61.6 A

switching capacity class of the circuit breaker	
ewiterining depacted diagonal product	Н
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter
Switching capacity according to UL 489	
current breaking capacity	
• at 240 V	100 kA
• at 480 V	65 kA
• at 600 V	25 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	70 A
maximum	70 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1 s
• maximum	1 s
adjustable response value setting current (li) / for I-tripping	
• minimum	700 A
maximum	700 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
maximum	0 A
adjustable current response value current / of the current-dependent overload release	70 70 A
product function / grounding protection	No
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No
trip indicator	No
height [in]	7.28 in
height	185 mm
width [in]	4.13 in
type of connectable conductor cross-sections / of the round conductor terminal / stranded	1 x (6 AWG - 350 kcmil)
width	105 mm
depth [in]	3.27 in
depth	83 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front connection
type of electrical connection / for main current circuit	circular conductor terminal on both sides
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
Accessories	
product extension / optional / motor drive	Yes
Environmental conditions	100
	IP40
protection class IP / on the front	II → ∪
ambient temperature	25 °C
during operation / minimum	-25 °C
during operation / maximum	70 °C
during storage / minimum	-40 °C
during ctorogo / mayimim	80 °C
during storage / maximum	
Certificates certificate of suitability / as approval for NAVAL (no combat	Yes



Confirmation





Miscellaneous



EMC Declaration of Conformity

Marine / Shipping

other









Miscellaneous

Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3VA5270-6ED36-1AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

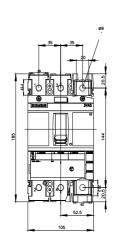
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5270-6ED36-1AA0

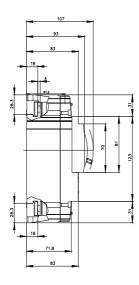
CAx-Online-Generator

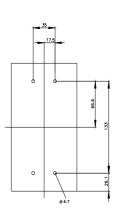
http://www.siemens.com/cax

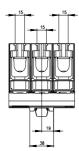
Tender specifications

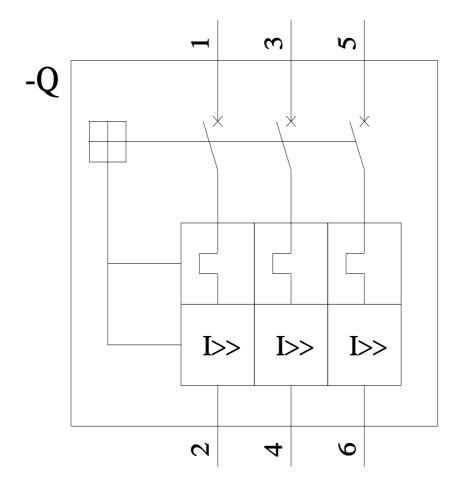
http://www.siemens.com/specifications

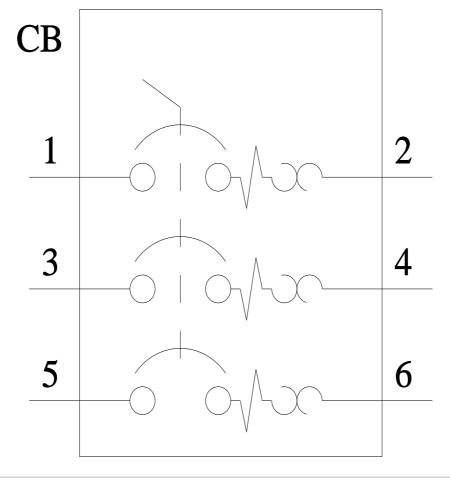












last modified: 7/15/2022 🖸

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Authorized Distributor

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3VA52706ED361AA0